

## **Description of Additional Supplementary Files**

File Name: Supplementary Data 1

Description: Estimates of some social consequences for subsistence fisheries users resulting from observed declines in salmon size, by species and population. In particular, we modeled the per-capita change in grams of protein and fat, Calories (kcal), 100g servings, and meals provided. Changes in size compare the average length of a salmon pre-1990 salmon to the average length of a salmon post-2010. Samples sizes are given in Supplementary Data File 4.

File Name: Supplementary Data 2

Description: Estimates of some ecological consequences resulting from observed declines in salmon size, by species and population. In particular, we modeled the per-capita change in grams of phosphorus and female fecundity (number of eggs). Changes in size compare the average length of a salmon pre-1990 salmon to the average length of a salmon post-2010. Samples sizes are given in Supplementary Data File 4.

File Name: Supplementary Data 3

Description: Estimates of an economic consequence for harvesters resulting from observed declines in salmon size, by species and population. In particular, we modeled the per-capita change in price (\$USD). Changes in size compare the average length of a salmon pre-1990 salmon to the average length of a salmon post-2010. Samples sizes are given in Supplementary Data File 4, rows with project type "commercial catch"

File Name: Supplementary Data 4

Description: Sample sizes (number of individuals) by species and population for analyses that compare average salmon size pre-1990 to average salmon size post-2010. Number of years included in each period is also provided.

File Name: Supplementary Data 5

Description: Sample sizes (number of individuals) by species and population for general additive models presented in Figure 2. Number of years included is also provided.

File Name: Supplementary Data 6

Description: Sample sizes (number of individuals) by species and population for chain rule analyses presented in Figure 3. Number of years included is also provided.

File Name: Supplementary Data 7

Description: Sample sizes (number of individuals) by species and population for hierarchical Bayesian models presented in Figure 4. Number of years included is also provided.